

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/502,510B  
Source: IFWP  
Date Processed by STIC: 8/14/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>10/502,570B</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 ____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor <b>after</b> creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 ____ Invalid Line Length	The rules require that a line <b>not exceed</b> 72 characters in length. This includes white spaces.	
3 ____ Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do <b>not</b> use tab codes between numbers; use <b>space characters</b> , instead.	
4 ____ Non-ASCII	The submitted file was <b>not</b> saved in ASCII(DOS) text, as <b>required</b> by the Sequence Rules. Please <b>ensure your subsequent submission is saved in ASCII text.</b>	
5 ____ Variable Length	Sequence(s) ____ contain n's or Xaa's representing more than one residue. <b>Per Sequence Rules, each n or Xaa can only represent a single residue.</b> Please present the <b>maximum</b> number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 ____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. <b>This applies to the mandatory &lt;220&gt;-&lt;223&gt; sections for Artificial or Unknown sequences.</b>	
7 ____ Skipped Sequences (OLD RULES)	Sequence(s) ____ missing. If intentional, please insert the following lines for <b>each</b> skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to <b>include</b> the skipped sequences.	
8 ____ Skipped Sequences (NEW RULES)	Sequence(s) ____ missing. If <b>intentional</b> , please insert the following lines for <b>each</b> skipped sequence. <210> sequence id number <400> sequence id number 000	
9 ____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is <b>MANDATORY</b> if n's or Xaa's are present. In <220> to <223> section, please explain location of <b>n</b> or <b>Xaa</b> , and which residue <b>n</b> or <b>Xaa</b> represents.	
10 ____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only <b>valid</b> <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is <b>required</b> when <213> response is Unknown or is Artificial Sequence. (see item 11 below)	
11 ____ Use of <220>	Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is <b>MANDATORY</b> if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules	
12 ____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 ____ Misuse of n/Xaa	"n" can <b>only</b> represent a single <u>nucleotide</u> ; "Xaa" can <b>only</b> represent a single <u>amino acid</u>	



IFWP

## RAW SEQUENCE LISTING

DATE: 08/14/2006

PATENT APPLICATION: US/10/502,510B

TIME: 12:24:23

Input Set : E:\04-585SeqListingST25.TXT

Output Set: N:\CRF4\08142006\J502510B.raw

3 <110> APPLICANT: El-Gewely, Mohamed Raafat  
 4 El-Gewely, Mohamed Raafat  
 5 Gardner, Rebecca  
 7 <120> TITLE OF INVENTION: Methods of screening molecular libraries and active  
 molecules  
 8 identified thereby  
 10 <130> FILE REFERENCE: MBHB-04-585 (59.68.75763/001)  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/502,510B  
 C--> 12 <141> CURRENT FILING DATE: 2004-07-23  
 12 <150> PRIOR APPLICATION NUMBER: PCT/GB03/00291  
 13 <151> PRIOR FILING DATE: 2003-01-03  
 15 <160> NUMBER OF SEQ ID NOS: 51  
 17 <170> SOFTWARE: PatentIn version 3.3  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 21  
 21 <212> TYPE: PRT  
 22 <213> ORGANISM: Artificial Sequence  
 24 <220> FEATURE:  
 25 <223> OTHER INFORMATION: secretion signal peptide  
 28 <220> FEATURE:  
 29 <221> NAME/KEY: UNSURE  
 30 <222> LOCATION: (1)..(21)  
 31 <223> OTHER INFORMATION: secretion signal peptide  
 33 <400> SEQUENCE: 1  
 35 Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro  
 36 1 5 10 15  
 39 Gly Ser Thr Gly Asp  
 40 20  
 43 <210> SEQ ID NO: 2  
 44 <211> LENGTH: 49  
 45 <212> TYPE: PRT  
 46 <213> ORGANISM: Artificial Sequence  
 48 <220> FEATURE:  
 49 <223> OTHER INFORMATION: transmembrane domain  
 52 <220> FEATURE:  
 53 <221> NAME/KEY: UNSURE  
 54 <222> LOCATION: (1)..(49)  
 55 <223> OTHER INFORMATION: transmembrane domain  
 57 <400> SEQUENCE: 2  
 59 Ala Val Gly Gln Asp Thr Gln Glu Val Ile Val Val Pro His Ser Leu  
 60 1 5 10 15  
 63 Pro Phe Lys Val Val Ile Ser Ala Ile Leu Ala Leu Val Val Leu  
 64 20 25 30  
 67 Thr Ile Ile Ser Leu Ile Ile Leu Ile Met Leu Trp Gln Lys Lys Pro

seq 2, 4, 6  
 Does Not Comply  
 Corrected Diskette Needed

## RAW SEQUENCE LISTING

DATE: 08/14/2006

PATENT APPLICATION: US/10/502,510B

TIME: 12:24:23

Input Set : E:\04-585SeqListingST25.TXT

Output Set: N:\CRF4\08142006\J502510B.raw

```

68          35          40          45
71 Arg
75 <210> SEQ ID NO: 3
76 <211> LENGTH: 5
77 <212> TYPE: PRT
78 <213> ORGANISM: Artificial Sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: peptide derivative
84 <220> FEATURE:
85 <221> NAME/KEY: VARIANT
86 <222> LOCATION: (1)..(5)
87 <223> OTHER INFORMATION: peptide derivative
89 <400> SEQUENCE: 3
91 Met Gly Trp Cys Thr
92 1      5
95 <210> SEQ ID NO: 4
96 <211> LENGTH: 190
97 <212> TYPE: DNA
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: vector
104 <220> FEATURE:
105 <221> NAME/KEY: misc_feature
106 <222> LOCATION: (1)..(190)
107 <223> OTHER INFORMATION: vector
109 <220> FEATURE:
110 <221> NAME/KEY: variation
111 <222> LOCATION: (1)..(190)
112 <223> OTHER INFORMATION: n= A, C, G or T in equal molar ratio
114 <220> FEATURE:
115 <221> NAME/KEY: variation
116 <222> LOCATION: (1)..(190)
117 <223> OTHER INFORMATION: k= G or T in equal molar ratio
119 <400> SEQUENCE: 4
120 ttgacgcaaa tgggcggtag gcgtgtacgg tgggaggtct atataagcag agctcggttta      60
122 gtgaaccgtc agatctctag aagctgggta ccagctgcta gcaagcttgc tagcggccgc      120
124 tcgaggcccg caaggccgga tccagacatg ataagataca ttgatgagtt tggacaaacc      180
126 acaactagaa                                     190
129 <210> SEQ ID NO: 5
130 <211> LENGTH: 70
131 <212> TYPE: DNA
132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: vector
138 <220> FEATURE:
139 <221> NAME/KEY: misc_feature
140 <222> LOCATION: (1)..(70)
141 <223> OTHER INFORMATION: vector
143 <220> FEATURE:

```

no n's in this  
sequence

no k's in this  
sequence

## RAW SEQUENCE LISTING

DATE: 08/14/2006

PATENT APPLICATION: US/10/502,510B

TIME: 12:24:23

Input Set : E:\04-585SeqListingST25.TXT

Output Set: N:\CRF4\08142006\J502510B.raw

```

144 <221> NAME/KEY: variation
145 <222> LOCATION: (1)..(70)
146 <223> OTHER INFORMATION: n= A, C, G or T in equal molar ratio
148 <220> FEATURE:
149 <221> NAME/KEY: variation
150 <222> LOCATION: (1)..(70)
151 <223> OTHER INFORMATION: k= G or T in equal molar ratio
153 <400> SEQUENCE: 5
W--> 154 aagagctcgg taccaagaag gagtttacat atgggannkn nknnktgata aggatccaag      60
156 cttgaattca                                                                    70
159 <210> SEQ ID NO: 6
160 <211> LENGTH: 23
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: synthetic sequence
168 <220> FEATURE:
169 <221> NAME/KEY: misc_feature
170 <222> LOCATION: (1)..(23)
171 <223> OTHER INFORMATION: synthetic sequence
173 <400> SEQUENCE: 6
174 aagagctcgg taccaagaag gag                                                    23
177 <210> SEQ ID NO: 7
178 <211> LENGTH: 25
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: synthetic sequence
186 <220> FEATURE:
187 <221> NAME/KEY: misc_feature
188 <222> LOCATION: (1)..(25)
189 <223> OTHER INFORMATION: synthetic sequence
191 <400> SEQUENCE: 7
192 ctgaattcaa gcttggatcc ttatc                                                25
195 <210> SEQ ID NO: 8
196 <211> LENGTH: 20
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: primer
204 <220> FEATURE:
205 <221> NAME/KEY: misc_feature
206 <222> LOCATION: (1)..(20)
207 <223> OTHER INFORMATION: primer
209 <400> SEQUENCE: 8
210 agagctcggt tagtgaaccg                                                    20
213 <210> SEQ ID NO: 9
214 <211> LENGTH: 20
215 <212> TYPE: DNA

```

## RAW SEQUENCE LISTING

DATE: 08/14/2006

PATENT APPLICATION: US/10/502,510B

TIME: 12:24:23

Input Set : E:\04-585SeqListingST25.TXT

Output Set: N:\CRF4\08142006\J502510B.raw

216 <213> ORGANISM: Artificial Sequence  
 218 <220> FEATURE:  
 219 <223> OTHER INFORMATION: primer  
 222 <220> FEATURE:  
 223 <221> NAME/KEY: misc\_feature  
 224 <222> LOCATION: (1)..(20)  
 225 <223> OTHER INFORMATION: primer  
 227 <400> SEQUENCE: 9  
 228 gtgggtttgtc caaactcatc  
 231 <210> SEQ ID NO: 10  
 232 <211> LENGTH: 55  
 233 <212> TYPE: DNA  
 234 <213> ORGANISM: Artificial Sequence  
 236 <220> FEATURE:  
 237 <223> OTHER INFORMATION: library sequence  
 240 <220> FEATURE:  
 241 <221> NAME/KEY: misc\_feature  
 242 <222> LOCATION: (1)..(55)  
 243 <223> OTHER INFORMATION: library sequence  
 245 <400> SEQUENCE: 10  
 246 ggtaccaaga aggagtttac atatgggatg gtgtacttga taaggatcca agctt  
 249 <210> SEQ ID NO: 11  
 250 <211> LENGTH: 20  
 251 <212> TYPE: DNA  
 252 <213> ORGANISM: Artificial Sequence  
 254 <220> FEATURE:  
 255 <223> OTHER INFORMATION: primer  
 258 <220> FEATURE:  
 259 <221> NAME/KEY: misc\_feature  
 260 <222> LOCATION: (1)..(20)  
 261 <223> OTHER INFORMATION: primer  
 263 <400> SEQUENCE: 11  
 264 ctacctcagg cagctcaagc  
 267 <210> SEQ ID NO: 12  
 268 <211> LENGTH: 20  
 269 <212> TYPE: DNA  
 270 <213> ORGANISM: Artificial Sequence  
 272 <220> FEATURE:  
 273 <223> OTHER INFORMATION: primer  
 276 <220> FEATURE:  
 277 <221> NAME/KEY: misc\_feature  
 278 <222> LOCATION: (1)..(20)  
 279 <223> OTHER INFORMATION: primer  
 281 <400> SEQUENCE: 12  
 282 agacagcacc ctcatcatgc  
 285 <210> SEQ ID NO: 13  
 286 <211> LENGTH: 20  
 287 <212> TYPE: DNA  
 288 <213> ORGANISM: Artificial Sequence

20

55

20

20

*insufficient  
 explanation - what is  
 the source of  
 the genetic material?*

*(see  
 item 11  
 on Error  
 summary  
 sheet)*

*Please  
 correct these  
 types of  
 errors in  
 subsequent  
 sequences*

## RAW SEQUENCE LISTING

DATE: 08/14/2006

PATENT APPLICATION: US/10/502,510B

TIME: 12:24:23

Input Set : E:\04-585SeqListingST25.TXT

Output Set: N:\CRF4\08142006\J502510B.raw

```

290 <220> FEATURE:
291 <223> OTHER INFORMATION: primer
294 <220> FEATURE:
295 <221> NAME/KEY: misc_feature
296 <222> LOCATION: (1)..(20)
297 <223> OTHER INFORMATION: primer
299 <400> SEQUENCE: 13
300 tgggtgctcat cttaatggcc 20
303 <210> SEQ ID NO: 14
304 <211> LENGTH: 20
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: primer
312 <220> FEATURE:
313 <221> NAME/KEY: misc_feature
314 <222> LOCATION: (1)..(20)
315 <223> OTHER INFORMATION: primer
317 <400> SEQUENCE: 14
318 tgacaaaacc taacttgcg 20
321 <210> SEQ ID NO: 15
322 <211> LENGTH: 26
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial Sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: primer
330 <220> FEATURE:
331 <221> NAME/KEY: misc_feature
332 <222> LOCATION: (1)..(26)
333 <223> OTHER INFORMATION: primer
335 <400> SEQUENCE: 15
336 aagcagtgggt aacaacgcag agtact 26
339 <210> SEQ ID NO: 16
340 <211> LENGTH: 23
341 <212> TYPE: DNA
342 <213> ORGANISM: Artificial Sequence
344 <220> FEATURE:
345 <223> OTHER INFORMATION: primer
348 <220> FEATURE:
349 <221> NAME/KEY: misc_feature
350 <222> LOCATION: (1)..(23)
351 <223> OTHER INFORMATION: primer
353 <400> SEQUENCE: 16
354 aagcagtgggt aacaacgcag agt 23
357 <210> SEQ ID NO: 17
358 <211> LENGTH: 34
359 <212> TYPE: DNA
360 <213> ORGANISM: Artificial Sequence
362 <220> FEATURE:

```

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 08/14/2006  
PATENT APPLICATION: US/10/502,510B      TIME: 12:24:25

Input Set : E:\04-585SeqListingST25.TXT  
Output Set: N:\CRF4\08142006\J502510B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 37,38,40,41,43,44  
Seq#:42; N Pos. 37,38,40,41,43,44  
Seq#:51; Xaa Pos. 2



**VERIFICATION SUMMARY**

DATE: 08/14/2006

PATENT APPLICATION: US/10/502,510B

TIME: 12:24:25

Input Set : E:\04-585SeqListingST25.TXT

Output Set: N:\CRF4\08142006\J502510B.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

L:836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0

L:1007 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0